INDEX

BABOOLAL, S., BHARUTHRAM, R. and HELLBERG, M. A. On the existence of ion-acoustic double layers in negative-ion plasmas, 247

BERGER, M. A. *See* WRIGHT, A. N. and BERGER, M. A.

BHARUTHRAM, R. Electron-acoustic instability driven by a field-aligned hot electron beam, 1

BHARUTHRAM, R. *See* BABOOLAL, S., BHARUTHRAM, R. and HELLBERG, M. A.

BOGDANOV, A. Scattering of circularly polarized electromagnetic waves off a straight electron beam propagating along a constant magnetic field, 201

BRODIN, G. and LUNDBERG, J. Parametric excitation of surface waves in a strongly inhomogeneous plasma, 299

BRODIN, G. and GRADOV, O. M. Amplification of nonlinear surface waves in an inhomogeneous transition layer, 459

CANOBBIO, E. and CROCI, R. Space-dependent quasi-linear theory of lower-hybrid waves, 347

CHALOV, S. V. The effect of cosmic rays on the instability of a tangential discontinuity, 309

CHUTIA, J., SATO, S., KUBO, H. and NAKAMURA, Y. Low-frequency instability excited by a mesh grid in a double-plasma device, 463

CRAMER, N. F. Nonlinear surface Alfvén waves, 15

CROCI, R. *See* CANOBBIO, E. and CROCI, R.

DEMEIO, L. and HOLLOWAY, J. P. Numerical simulations of BGK modes, 63

DEVILLERS, G. *See* HEIKKINEN, J. A., PÄTTIKANGAS, T. J. H. and DEVILLERS, G.

DI VITA, A. Magnetic fluctuations and kinetic equations in a two-species plasma, 423

GARRETT, A. J. M. Kinetic theory of cross-modulation in a weakly ionized plasma, 365

GILL, A. S. and LAING, E. W. Resistive evolution of a force-free plasma to equilibrium, 437

GOLDSTEIN, M. L. *See* VIÑAS, A. F. and GOLDSTEIN, M. L.

GRADOV, O. M. *See* BRODIN, G. and GRADOV, O. M.

GUPTA, G. P. *See* PAITHANKAR, A. S. and GUPTA, G. P.

HAMABATA, H. Modulational instability produced by Alfvénic turbulence in a collisionless plasma, 319

HEIKKINEN, J. A., PÄTTIKANGAS, T. J. H. and DEVILLERS, G. On the decay of a dipole pump wave to half-harmonics, 231

HELLBERG, M. A. *See* BABOOLAL, S., BAHARUTHRAM, R. and HELLBERG, M. A.

HOLLOWAY, J. P. *See* DEMEIO, L. and HOLLOWAY, J. P.

JANICKI, C. An exact formula for the thermal and particle diffusivities based on the diffusive transport model in tokamak plasma, 487

KATES, R. E. and KAUP, D. J. Instability of intensely propagating circularly polarized electromagnetic pulses in a two-component plasma, 85

KAUP, D. J. *See* KATES, R. E. and KAUP, D. J.

KRIVITSKY, V. S. and VLADIMIROV, S. V. Theory of nonlinear interaction of particles and waves in an inverse plasma maser. Part 1. Collision integral, 209

KRIVITSKY, V. S. and VLADIMIROV, S. V. Theory of nonlinear interaction of particles and waves in an inverse plasma maser. Part 2. Stationary solution and evolution of initial distributions, 219

KUBO, H. *See* CHUTIA, J., SATO, S., KUBO, H. and NAKAMURA, Y.

LAING, E. W. *See* GILL, A. S. and LAING, E. W.

LUNDBERG, J. *See* BRODIN, G. and LUNDBERG, J.

MURATA, H. Magnetic field intensification and formation of field-aligned current in a non-uniform magnetic field, 29

NAKAMURA, Y. *See* CHUTIA, J., SATO, S., KUBO, H. and NAKAMURA, Y.

NAMBU, M. *See* SARMA, S. N., SARMA, K. K. and NAMBU, M.

NOCERA, L. and PRIEST, E. R. Bisatibility of a forced hydromagnetic cavity, 153

NOCERA, L. Convection in a plasma with opposed temperature and density gradients, 391

PAITHANKAR, A. S. and GUPTA, G. P. Observations of low-frequency oscillations during relativistic-electron-beam–plasma interactions, 237

PÄTTIKANGAS, T. J. H. *See* HEIKKINEN, J. A., PÄTTIKANGAS, T. J. H. and DEVILLERS, G.

PHAN, T. D. and SONNERUP, B. U. Ö. Resistive tearing-mode instability in a current sheet with equilibrium viscous stagnation-point flow, 407

PRIEST, E. R. *See* NOCERA, L. and PRIEST, E. R.

RIYOPOULOS, S. Guiding-centre orbits for particles in cross-field devices, 473

ROWE, G. W. General dispersion relation for surface waves on a plasma–vacuum interface: an image approach, 495

SARMA, K. K. *See* SARMA, S. N., SARMA, K. K. and NAMBU, M.

SARMA, S. N., SARMA, K. K. and NAMBU, M. Plasma maser theory of the extraordinary mode in the presence of Langmuir turbulence, 331

SATO, S. *See* CHUTIA, J., SATO, S., KUBO, H. and NAKAMURA, Y.

SHARMA, S. K. and SUDARSHAN, S. Scattering of electromagnetic waves by hybrid waves in a two-electron-temperature plasma, 99

SONNERUP, B. U. Ö. *See* PHAN, T. D. and SONNERUP, B. U. Ö.

SUDARSHAN, S. *See* SHARMA, S. K. and SUDARSHAN, S.

TIWARI, M. S. and VARMA, P. Drift instability in the presence of a parallel electric field and an inhomogeneous magnetic field: particle aspect analysis, 49

VARMA, P. *See* TIWARI, M. A. and VARMA, P.

VIÑAS, A. F. and GOLDSTEIN, M. L. Parametric instabilities of circularly polarized large-amplitude dispersive Alfvén waves: excitation of parallel-propagating electromagnetic daughter waves, 107

VIÑAS, A. F. and GOLDSTEIN, M. L. Parametric instabilities of circular polarized large-amplitude dispersive Alfvén waves: excitation of obliquely-propagating daughter and side-band waves, 129

VLADIMIROV, S. V. *See* KRIVITSKY, V. S. and VLADIMIROV, S. V.

WATTERSON, P. A. A generalization of the Taylor constraint to the advection of axisymmetric poloidal magnetic fields, 255

WATTERSON, P. A. Analytical solutions for the current driven by a rotating magnetic field in a spherical plasma, 271

WRIGHT, A. N. and BERGER, M. A. A physical description of magnetic helicity evolution in the presence of reconnection lines, 179

ZANK, G. P. Weyl's theorem for magnetohydrodynamics, 11